

Title (en)

ARTICLES CONTAINING PRECISELY BRANCHED FUNCTIONAL POLYMERIC PHASE CHANGE MATERIALS

Title (de)

ARTIKEL MIT GENAU VERZWEIGTEN FUNKTIONELLEN POLYMERPHASENWECHSELMATERIALIEN

Title (fr)

ARTICLES CONTENANT DES MATÉRIAUX POLYMÈRES FONCTIONNELS À CHANGEMENT DE PHASE RAMIFIÉS AVEC PRÉCISION

Publication

EP 2681352 A2 20140108 (EN)

Application

EP 12754849 A 20120215

Priority

- US 201113040692 A 20110304
- US 2012025234 W 20120215

Abstract (en)

[origin: US2012225290A1] In accordance with one aspect a temperature regulating article comprises a substrate and a polymeric phase change material bound to the substrate, wherein the polymeric phase change material is characterized by including a precisely branched polymer with substantially equally spaced repeating sidechains. In other embodiments the polymeric phase change material includes between 20 and 200 branches per 1000 carbon units, has a latent heat of at least 5 Joules per gram, and a transition temperature between 0° C. and 40° C.

IPC 8 full level

C08F 10/00 (2006.01)

CPC (source: CN EP KR US)

C08F 20/32 (2013.01 - CN EP US); **C08F 32/04** (2013.01 - CN KR US); **C08F 36/06** (2013.01 - KR); **C08F 36/20** (2013.01 - CN EP KR US); **C08F 120/32** (2013.01 - CN US); **C08F 136/06** (2013.01 - CN KR US); **C08F 210/06** (2013.01 - CN KR US); **C08F 220/18** (2013.01 - CN); **C08F 236/06** (2013.01 - CN KR US); **C09K 5/063** (2013.01 - KR); **D01F 1/10** (2013.01 - CN EP KR US); **D06M 15/227** (2013.01 - CN EP KR US); **D06M 15/27** (2013.01 - EP KR US); **D06M 15/273** (2013.01 - CN); **D06M 15/327** (2013.01 - EP KR US); **C08F 220/1818** (2020.02 - CN); **C08F 220/325** (2020.02 - EP US); **Y10T 428/2913** (2015.01 - EP US); **Y10T 428/2933** (2015.01 - EP US); **Y10T 428/31504** (2015.04 - EP US); **Y10T 442/20** (2015.04 - EP US); **Y10T 442/2213** (2015.04 - EP US)

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